



City of Indianapolis 2015 Storm Water Credit Manual

DEPARTMENT OF PUBLIC WORKS

June 2015

Agenda



- Background
- 2003 Storm Water Credits
- 2015 Storm Water Credits
- Storm Water Credits and Summary of Changes
 - Review Process
 - Example Credits

Background

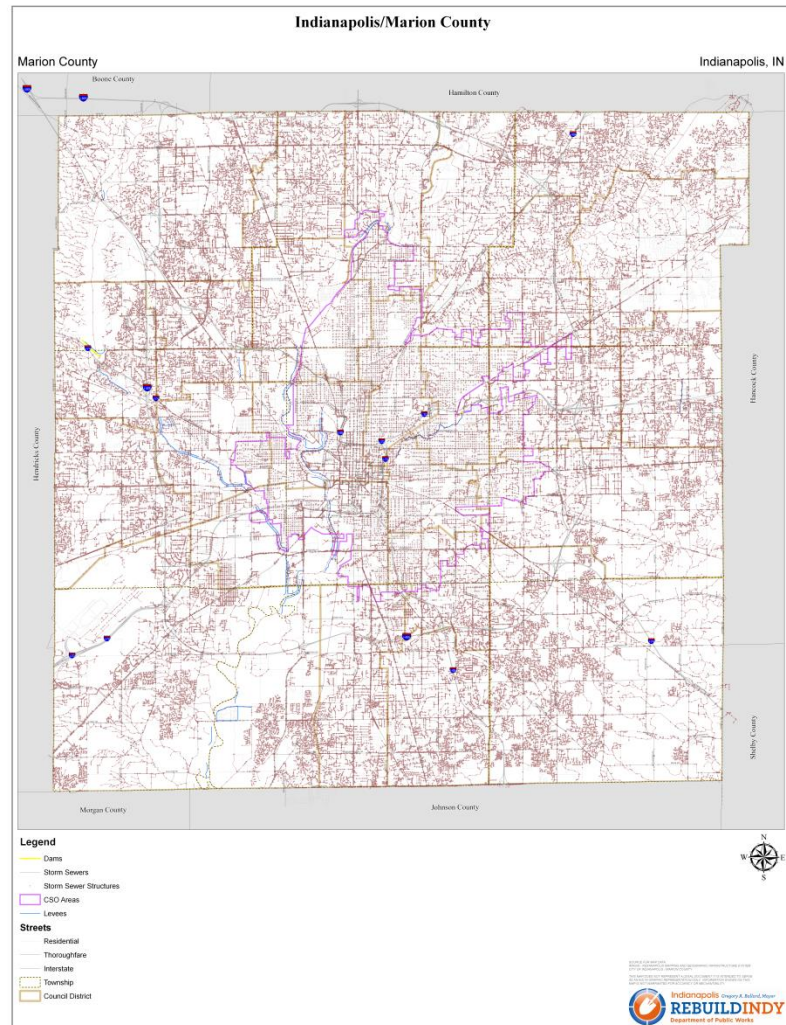


- When it rains, water runs off *impervious surfaces* into our storm water drainage system
 - Rooftops
 - Parking lots
 - City streets
 - Driveways
 - Compacted gravel
- Once it reaches our storm water system, the water is released directly into our waterways.

The Storm Water Asset

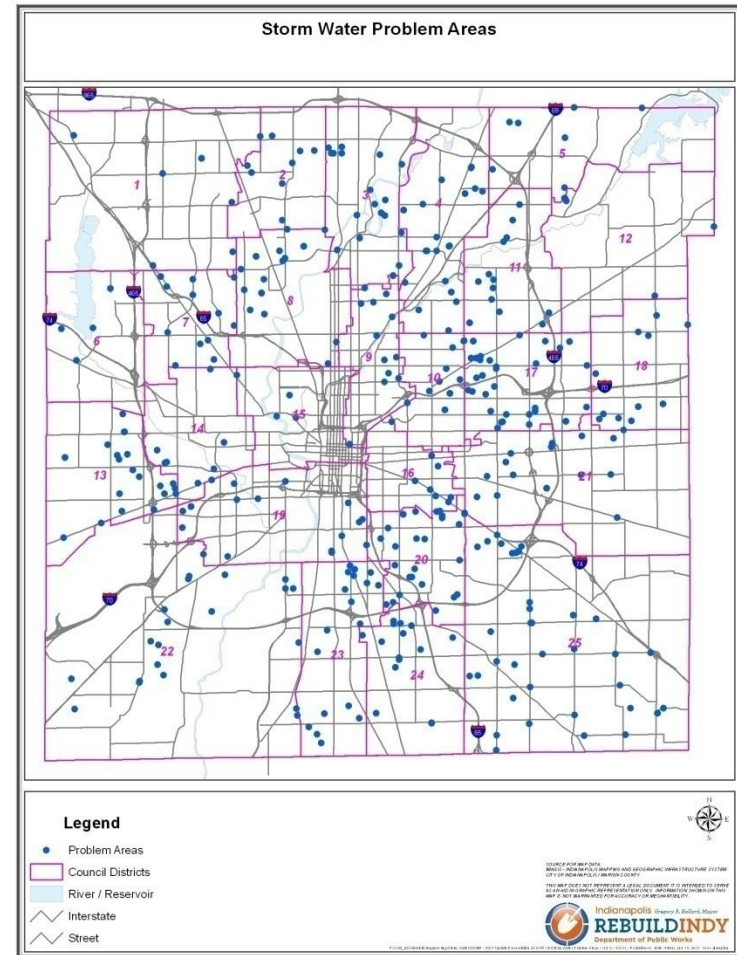


- Serves all of Marion County
- Valued at approximately **\$1.1 billion**
- **1,300** miles of pipe
- More than **100,000** structures
- **2** dams
- **35** miles of levee
- **3,700** miles of public roadway



Problem Areas

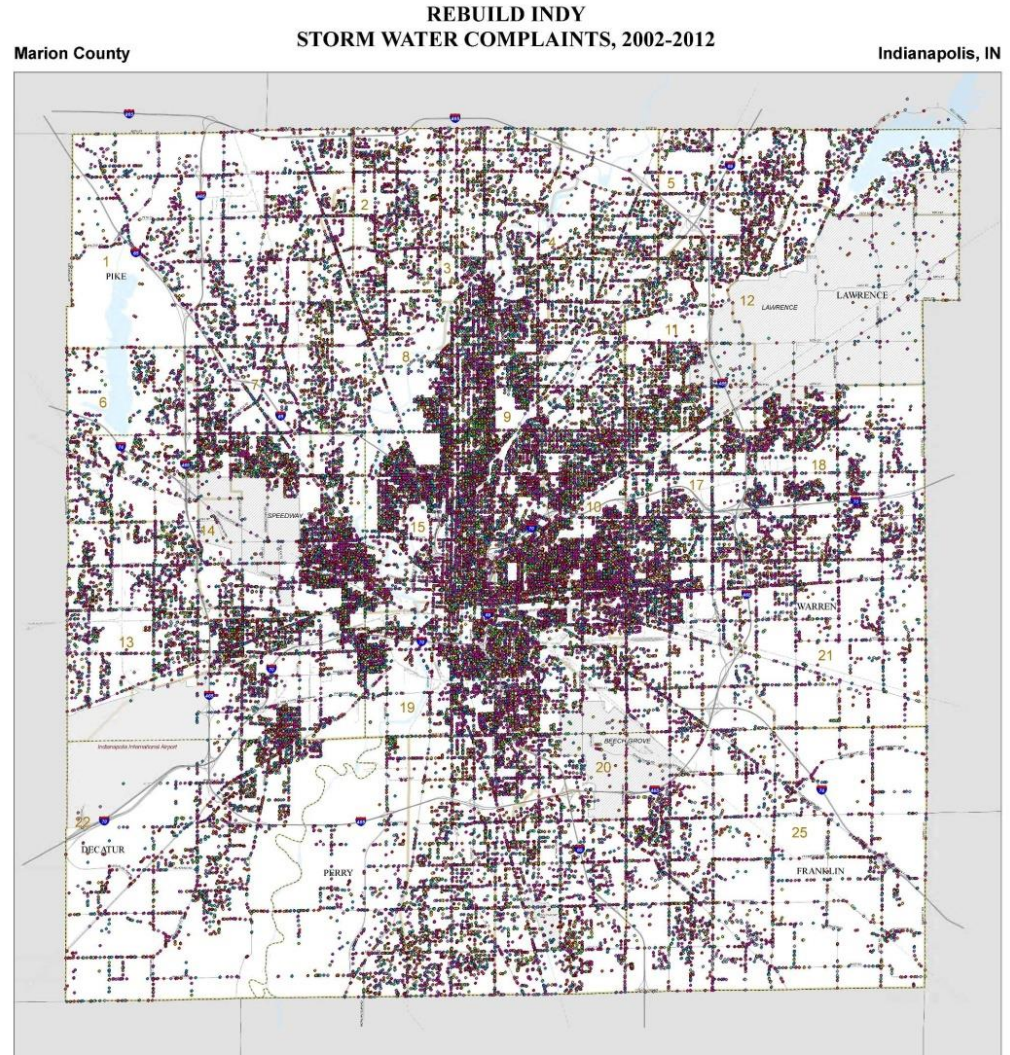
- Currently over 380 problem areas identified
- Covers all Townships



Customers and Complaints



- 300,000 customers served
- Average thousands of complaints per year
- Customers drive the program

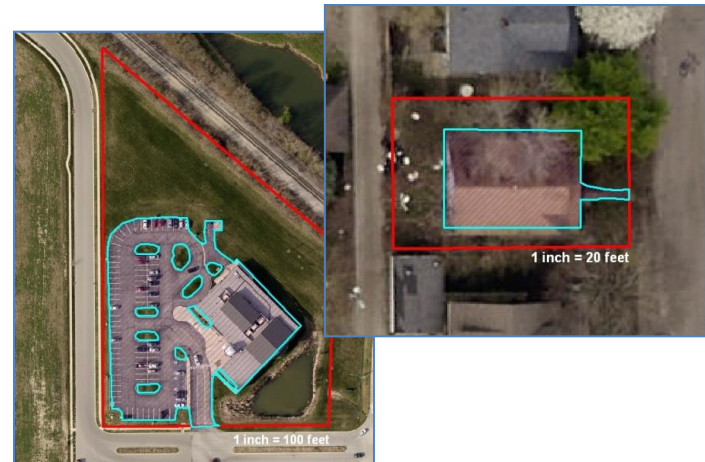


Background



Storm Water Fee Structure

- **Historic - Storm water fees for residential and non-residential property owners are calculated differently.**
 - Residential properties: Flat fee for all—regardless of how much impervious surface area.
 - Non-residential properties: Charged based on how much impervious surface area exists on property.
- **July 1, 2015 - Storm water fees for residential and non-residential property owners will be calculated the same.**
 - Residential properties will be assessed to determine the amount of impervious surface area and charged based on that assessment—just as non-residential users are today.



Storm Water Credits



- The Department of Public Works has developed a system of credits for residential and non-residential property owners who have storm water control facilities in place to manage and reduce the impact on the drainage system.

Purpose and Application of Credits



- Provide storm water fee discount for specifically benefitting storm water program/system and drainage ordinance
- Applicable to Residential and Non-Residential Properties/Parcels
- Applicable to only portion of property/parcel affected by action or activity and for approved BMPs

2003 Storm Water Credit Program



- Credits Available and Who Qualified?**

Credits	Who Qualified
Direct Discharge Credit (DDC)	Non-Residential Properties/Parcels
Quantity Reduction Credit (QRC)	Non-Residential Properties/Parcels
Quality Improvement Credit (QIC)	Non-Residential Properties/Parcels

Note: Credits issued prior to July 1, 2015 will expire on December 31, 2016

2015 Storm Water Credit Program



- What Credits are Available and Who Qualifies?**

Credits	Who Qualifies
Individual Residential Credit	Residential Properties/Parcels
Storm Water Quality and Quantity Credit	Non-Residential Properties/Parcels
Additional Storm Water Quality and/or Quantity Control Credit (Infiltrative Credit)	Non-Residential Properties/Parcels
Direct Discharge Credit	Non-Residential Properties/Parcels
Education Credit	Public & Private Elementary, Middle, and High School Properties/Parcels

2015 Storm Water Credit Program



- **How to Qualify Individual Residential Credit:**

Eligibility: Individual residential account holders who construct and maintain permitted BMPs.

- Rain Garden
- On-Site Storm Water Storage
- Vegetated Filter Strips

2015 Storm Water Credit Program



- **How to Apply for Individual Residential Credit:**

- General Credit Application
- Individual Residential Credit Application with \$50 Flat-Fee
- Signed Right of Entry Form
- Sketch of BMP location & photograph of each BMP
- Rain Garden Registration with the City of Indianapolis Office of Sustainability (for Rain Gardens)
- Indemnification Agreement
- Approval from Homeowner Associations or other local communities with restrictions on types of improvements
- Documentation that the BMP has been installed to the required City of Indianapolis standards and requirements

2015 Storm Water Credit Program



- **Value of Credit:**
 - **Residential Properties:**
 - Residential Credit – 25% Flat
 - The maximum credit or combination of credits given to any one residential property shall be 25%.

2015 Storm Water Credit Program



- **How to Qualify for a Storm Water Quality and Quantity Credit :**
 - Eligibility: Non-Residential applicants who implement and maintain approved BMPs designed to control Storm Water peak flows, volumes and water quality.

2015 Storm Water Credit Program



- **Storm Water Quality and Quantity Credit Tiers:**
 - **Tier 1:**
 - Meets the requirements of the City of Indianapolis Design & Construction Storm Water Specifications Manual
 - **Tier 2**
 - Exceeds the requirements of the City of Indianapolis Design & Construction Storm Water Specifications Manual by a minimum of 10%

2015 Storm Water Credit Program



- **How to Apply for Storm Water Quality and Quantity Credit :**

- General Credit Application
- Storm Water Quality and Quantity Credit Application with \$450 Fee with 3hrs of review time and \$150/hr of additional review time
- Signed Right-Of-Entry Form
- Site Map and Plan
 - Property Boundaries, Location & Size of each BMP
 - Association impervious surfaces draining to each BMP
 - Watershed breaks across the property
 - Layout of the drainage system on the property

2015 Storm Water Credit Program



- **How to Apply for Storm Water Quality and Quantity Credit :**
 - Indemnification Agreement
 - Signed and Stamped As-Built Site Map and Plan
 - Design Calculations
 - Operations and Maintenance Manual

2015 Storm Water Credit Program



- **How to Qualify for the Infiltrative Credit:**
 - Eligibility: Non-residential applicants who implement a Department approved BMPs that utilizes the natural process of infiltration to control water quantity and/or quality.
 - BMPs:
 - Must be designed using the City of Indianapolis Storm Water Design and Specification Manual, the Green Infrastructure Supplemental Storm Water Document, and/or Storm Water Quality Unit (SQU) Selection Guide.

2015 Storm Water Credit Program



- **How to Apply for the Infiltrative Credit:**
 - General Credit Application
 - Storm Water Quality and Quantity Credit Application with \$450 Fee with 3hrs of review time and \$150/hr of additional review time
 - Signed Right-Of-Entry Form
 - Site Map and Plan
 - Property Boundaries, Location & Size of each BMP
 - Association impervious surfaces draining to each BMP
 - Watershed breaks across the property
 - Layout of the drainage system on the property

2015 Storm Water Credit Program



- **How to Apply for the Infiltrative Credit:**
 - Indemnification Agreement
 - Signed and Stamped As-Built Site Map and Plan
 - Design Calculations
 - Operations and Maintenance Manual

2015 Storm Water Credit Program



- **How to Qualify for Direct Discharge Credit:**

Eligibility: Non-residential properties that discharge their storm water into designated major waterways rather than the public drainage system. Credit is proportionate only for that portion of the property's surface area that discharges directly into the major waterway.

2015 Storm Water Credit Program



- **How to Apply for Direct Discharge Credit (DDC):**
 - General Credit Application
 - Storm Water Quality and Quantity Credit Application with \$450 Fee with 3hrs of review time and \$150/hr of additional review time
 - Certified plat/survey of the property indicating the following:
 - Location of the major waterway
 - Watershed breaks across the property
 - Layout of impervious surface areas on the property
 - Layout of the drainage system on the property, including location of natural and man-made features
 - Other information necessary to verify general drainage patterns across the property

2015 Storm Water Credit Program



- **How to Qualify Storm Education Credits :**
- Eligibility: Public and private elementary schools, middle school, and high school account holders recognized by the State of Indiana that provide to their students a regular and continuing program of education concentrating on the stewardship of our water resources and minimization of demand on the regional storm water system.

2015 Storm Water Credit Program

Indianapolis Gregory A. Ballard, Mayor
REBUILDINDY
Department of Public Works



- **How to Apply for Education Credits :**

- General Application
- Education Credit Application with \$300 Flat-Fee
- A copy of the approved educational take-home materials to all targeted students/members at least once annually

2015 Storm Water Credit Program

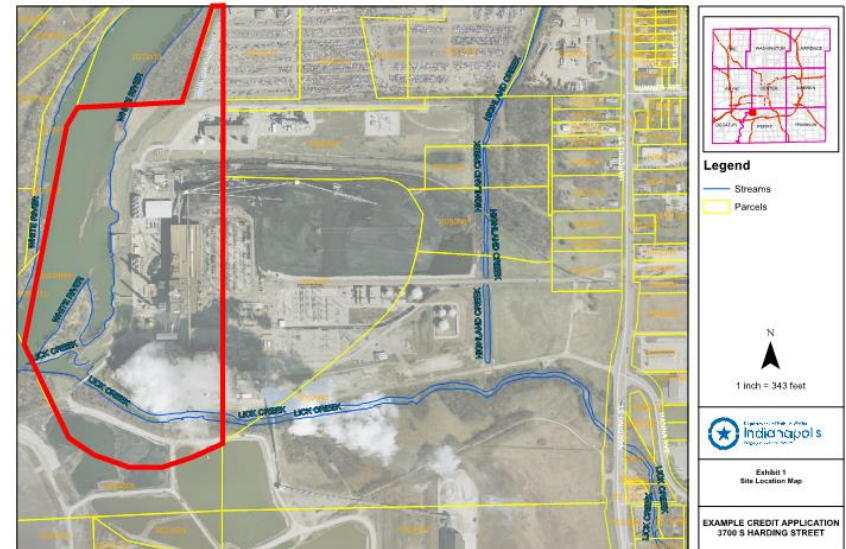


- **Value of Credits:**
 - **Non-Residential Properties:**
 - Storm Water Quality and Quantity Credit
 - Tier 1 – 10% Max
 - Tier 2 – 30% Max
 - Infiltrative Credit – 20% Flat
 - Direct Discharge Credit – 50% Max
 - Education Credit – 5% Flat
 - The maximum credit or combination of credits given to any one non-residential property shall be 50%

2015 Storm Water Credit Program



- **Direct Discharge Credit Example:**
- Certified Plat or Survey of the Property
 - Location of major waterway
 - Watershed breaks across property
 - Layout of any impervious surface areas
 - Layout of the drainage system on the property

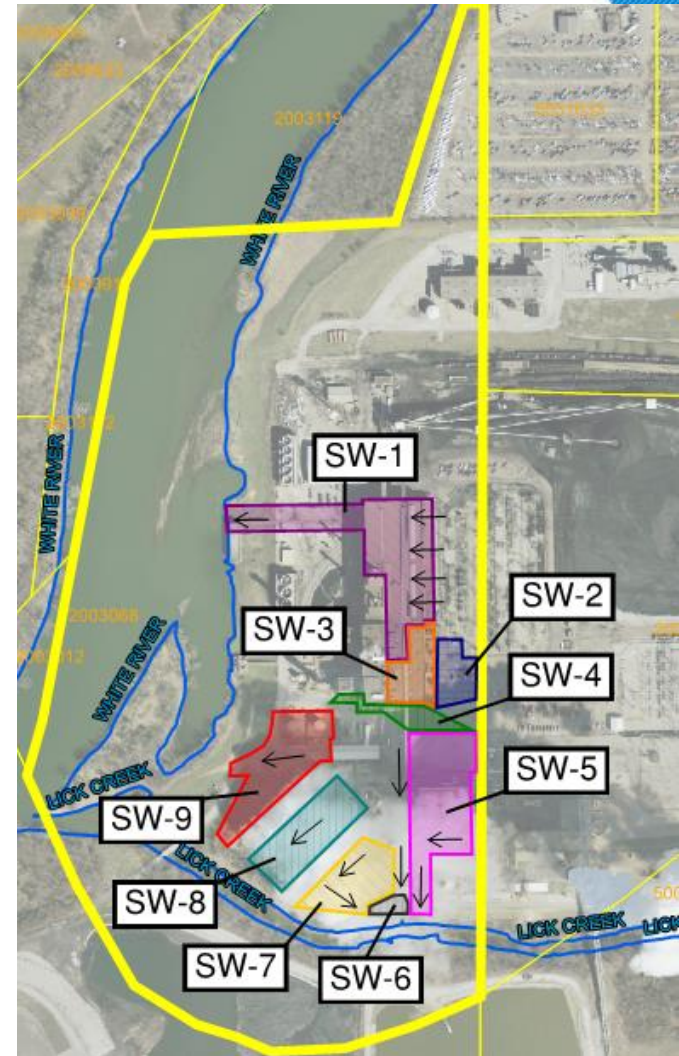


2015 Storm Water Credit Program



- Direct Discharge Credit Example:**

Watershed	Impervious Area (ft ²)	Total Drainage Area (ft ²)	Receiving Stream
SW-1	34,500	34,500	White River
SW-2	55,000	55,000	Lick Creek
SW-3	32,500	34,500	Lick Creek
SW-4	35,000	71,000	Lick Creek
SW-5	82,000	101,000	Lick Creek
SW-6	1,500	3,500	Lick Creek
SW-7	Negligible	9,000	Lick Creek
SW-8	2,100	61,000	Lick Creek
SW-9	11,000	34,500	White River



2015 Storm Water Credit Program



- **Direct Discharge Credit Example:**

Watershed	Impervious Area (ft ²)	Total Drainage Area (ft ²)	Receiving Stream
SW-1	34,500	34,500	White River
SW-9	1,100	34,500	White River

- **Total Impervious Surface Area that discharges directly into the major waterway:**

$$34,500 \text{ ft}^2 + 11,000 \text{ ft}^2 = 45,500 \text{ ft}^2$$

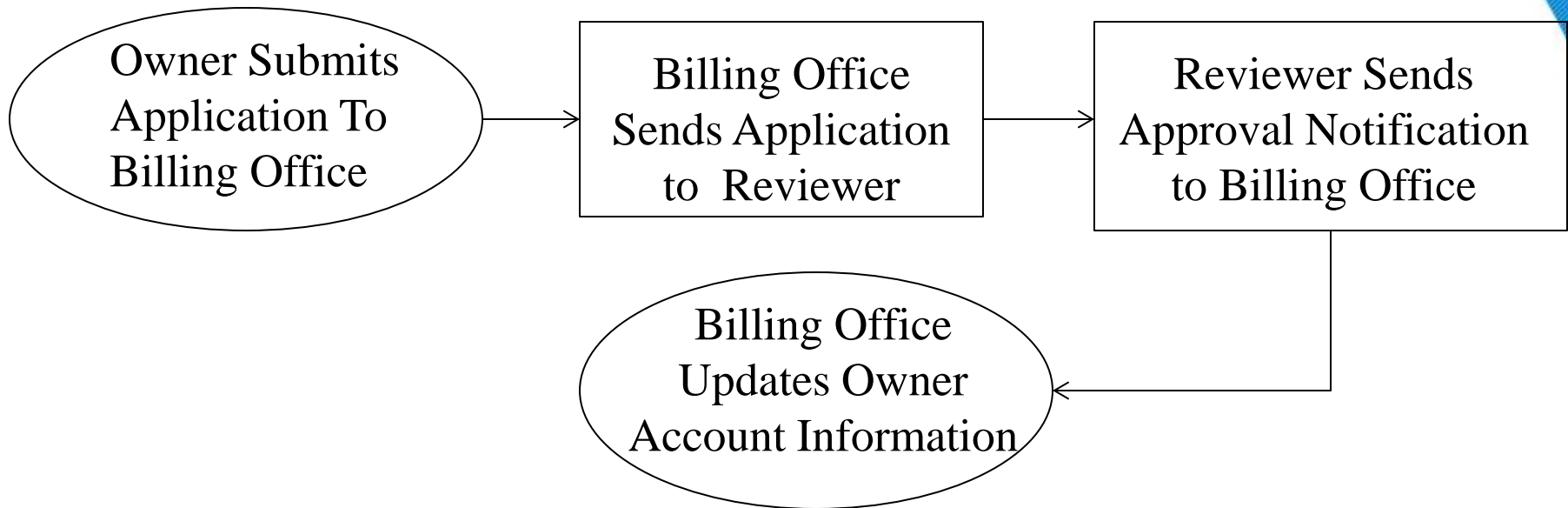
- **BBUs** = $(45,000 \text{ ft}^2) = 45 \text{ BBU}$ s
- **DDC BBUs** = $(45 \text{ BBU}) \times (1/2) = 22.5 = 23 \text{ BBU}$ s
- **Total Direct Discharge Credit** = $(23 \text{ BBU}) \times (\$1.10)$
= \$25.30/month

Summary of Changes



- Discontinued Credits
- Reduction in Maximum Credits
- Residential Credits
- Educational Credits
- Application Forms

Summary of Review Process



- Initial Review shall be completed within 60 days of receipt of the completed application form and fee payment

- Effective Dates:

July 1 of Same Year – Approved Applications between January 1 and/or on June 30

January 1 of Following Year – Approved Applications between July 1 and/or on December 31

For more information



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